Multifunctional Carbon Nanotubes Enhanced Structural Composites with Improved Toughness and Damage Monitoring

Colin Robert, Isabelle Pillin, Mickaël Castro and Jean-Francois Feller *

Raw data of stress/strain experiments with pure EP, EP-CNT, UD GF-EP and UD GF-EP-CNT are summarized in Table S1 from the analysis of the curves plotted in Figures S1–S8.

Table S1. Summary of modulus (E), stress at break (σ_b) & strain at break (ε_b) data extracted from curves from Figures S1–S8.

	EP			UD GF-EP						
	EP	+/- %	EP-CNT	+/- %	Ratio %	EP	+/- %	EP-CNT	+/- %	Ratio %
E (MPa)	3569,8	1,4	3487,2	1,2	-2	7723,9	3,6	6349,0	15,8	-18
σь (MPa)	65,4	5,0	68,0	3,8	4	15,5	1,9	17,8	2,6	15
€ь (%)	3,35	17,9	3,3	8,6	-3	0,2	4,3	0,3	10,0	30
E (MPa)	3087,5	6,8	3114,4	8,3	1	7346,4	17,2	6948,8	6,5	-5
σь (MPa)	110,7	4,5	124,0	4,8	12	38,7	11,9	44,0	8,2	14
€ь (%)	5,7	3,5	6,4	20,3	12	0,5	13,2	0,7	7,6	25



Figure S1. Stress/strain curves of 5 EP samples in Tension.



Figure S2. Stress/strain curves of 5 EP-CNT samples in Tension.



Figure S3. Stress/strain curves of 5 EP samples in Bending.



Figure S4. Stress/strain curves of 5 EP-CNT samples in Bending.



Figure S5. Stress/strain curves of 5 UD GF-EP samples in 90° Tension.



Figure S6. Stress/strain curves of 5 UD GF-EP-CNT samples in 90° Tension.



Figure S7. Stress/strain curves of 5 UD GF-EP samples in Bending.



Figure S8. Stress/strain curves of 5 UD GF-EP-CNT samples in Bending.